

**IFWO** 

RAW SEQUENCE LISTING

DATE: 09/20/2004

PATENT APPLICATION: US/10/826,585

TIME: 16:35:37

Input Set : D:\Sequence Stuff\IMMC 143 PCT.US.ST25.txt

Output Set: N:\CRF4\09202004\J826585.raw 3 <110> APPLICANT: Immunivest Corporation O'Hara, Shawn Mark Foulk, Brad Zweitzig, Daniel 8 <120> TITLE OF INVENTION: Multiparameter analysis of comprehensive nucleic acids and 9 morphological features on the same sample 11 <130> FILE REFERENCE: IMMC 143 PCT/US 13 <140> CURRENT APPLICATION NUMBER: 10/826585 14 <141> CURRENT FILING DATE: 2004-04-16 16 <150> PRIOR APPLICATION NUMBER: 60/369945 17 <151> PRIOR FILING DATE: 2002-04-04 19 <150> PRIOR APPLICATION NUMBER: 60/330669 20 <151> PRIOR FILING DATE: 2002-11-26 22 <150> PRIOR APPLICATION NUMBER: PCT/US02/26867 23 <151> PRIOR FILING DATE: 2002-08-23 25 <160> NUMBER OF SEQ ID NOS: 131 27 <170> SOFTWARE: PatentIn version 3.3 29 <210> SEQ ID NO: 1 30 <211> LENGTH: 900 31 <212> TYPE: DNA 32 <213> ORGANISM: Human 34 <400> SEQUENCE: 1 35 tgccccggg ccccaagcat aaaccetgge gegetegegg cccggcacte ttctggtece 60 37 cacagactea gagagaacce accatggtge tgteteetge egacaagace aacgteaagg 120 39 ccgcctgggg taaggtcggc gcgcacgctg gcgagtatgg tgcggaggcc ctggagaggt 180 41 gaggetecct eccetgetee gacceggget cetegeeege eeggaceeae aggecaeeet 240 300 43 caaccqtcct qqcccqqac ccaaacccca cccctcactc tgcttctccc cgcaggatgt 45 tectgteett ecceaceace aagaeetact teeegeaett egaeetgage eaeggetetg 360 47 cccaggttaa gggccacggc aagaaggtgg ccgacgcgct gaccaacgcc gtggcgcacg 420 49 tqqacqacat qcccaacqcq ctqtccqccc tgagcgacct gcacqcgcac aagcttcggg 480 51 tggacccggt caacttcaag gtgagcggcg ggccgggagc gatctgggtc gaggggcgag 540 53 atggcgcctt cctcgcaggg cagaggatca cgcgggttgc gggaggtgta gcgcaggcgg 600 55 cggctgcgga cctgggccct cggccccact gaccctcttc tctgcacagc tcctaagcca 660 57 ctqcctqctq qtgaccctqq ccgcccacct ccccgccgag ttcacccctg cggtgcacgc 720 59 ctccctggac aagttcctgg cttctgtgag caccgtgctg acctccaaat accgttaagc 780 61 tggagccteg gtggccatgc ttcttgcccc ttgggcctcc ccccagcccc tcctcccctt 840

63 octgoacceg taccecegtg gtotttgaat aaagtotgag tgggcggcag cetgtgtgtg

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66 <210> SEQ ID NO: 2 67 <211> LENGTH: 4314 68 <212> TYPE: DNA

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Input Set : D:\Sequence Stuff\IMMC 143 PCT.US.ST25.txt
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|      |            |              | cccagcccgg   |              |              |            | 180  |
| 78 d | eggeggette | gaagccgccg   | cccggagctg   | ccctttcctc   | ttcggtgaag   | tttttaaaag | 240  |
|      |            |              | gcaaggaaag   |              |              |            | 300  |
| 82 ( | dtactactat | ccaccccgcc   | tcccccacc    | ctgccttccc   | cccctcccc    | gtcttctctc | 360  |
|      |            |              | tactctcagc   |              |              |            | 420  |
| 86   | gccccccgc  | ccccgtcggc   | ccagcgctgc   | cagcccgagt   | ttgcagagag   | gtaactccct | 480  |
|      |            |              | tagctgcaca   |              |              |            | 540  |
|      |            |              | tgcagccacg   |              |              |            | 600  |
| 92 a | accctctgtt | ttcccccact   | ctctctccac   | ctcctcctgc   | cttccccacc   | ccgagtgcgg | 660  |
| 94 a | agccagagat | caaaagatga   | aaaggcagtc   | aggtcttcag   | tagccaaaaa   | acaaaacaaa | 720  |
| 96 ( | caaaaacaaa | aaagccgaaa   | taaaagaaaa   | agataataac   | tcagttctta   | tttgcaccta | 780  |
| 98 ( | cttcagtgga | cactgaattt   | ggaaggtgga   | ggattttgtt   | tttttcttt    | aagatctggg | 840  |
| 100  | catcttttga | atctaccctt   | caagtattaa   | . gagacagact | gtgagcctag   | cagggcagat | 900  |
|      |            |              | ttctgcacga   |              |              |            | 960  |
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| 106  | gactaccgca | tcatcacago   | ctgttgaact   | cttctgagca   | agagaagggg   | aggcggggta | 1080 |
| 108  | agggaagtag | gtggaagatt   | cagccaagct   | caaggatgga   | agtgcagtta   | gggctgggaa | 1140 |
| 110  | gggtctacco | tcggccgccg   | tccaagacct   | accgaggagc   | : tttccagaat | ctgttccaga | 1200 |
| 112  | gcgtgcgcga | agtgatccag   | aacccgggcc   | ccaggcaccc   | agaggccgcg   | agcgcagcac | 1260 |
| 114  | ctcccggcgc | cagtttgctg   | ,ctgctgcago  | agcagcagca   | gcagcagcag   | cagcagcagc | 1320 |
| 116  | agcagcagca | gcagcagcag   | cagcagcago   | agcaagagac   | : tagccccagg | cagcagcagc | 1380 |
|      |            |              |              |              |              | ggctacctgg | 1440 |
| 120  | tcctggatga | a ggaacagcaa | ccttcacago   | cgcagtcggc   | cctggagtgc   | caccccgaga | 1500 |
| 122  | gaggttgcgt | : cccagagcct | . ggagccgccg | tggccgccag   | r caaggggctg | ccgcagcagc | 1560 |
|      |            |              |              |              |              | ctgctgggcc | 1620 |
| 126  | ccactttccc | cggcttaagc   | agctgctccg   | ctgaccttaa   | agacatcctg   | agcgaggcca | 1680 |
|      |            |              |              |              |              | agcagcagcg | 1740 |
|      |            |              |              |              |              | ttagggggca | 1800 |
|      |            |              |              |              |              | tccatgggcc | 1860 |
|      |            |              | catctgagto   |              |              |            | 1920 |
| 136  | acgccccact | : tttgggagtt | ccacccgctg   | tgcgtcccac   | : tccttgtgcc | ccattggccg | 1980 |
|      |            |              |              |              |              | actgctgagt | 2040 |
|      |            |              |              |              |              | ggctgctctg | 2100 |
|      |            |              |              |              |              | tctctctaca | 2160 |
|      |            |              |              |              |              | aactttccac | 2220 |
|      |            |              |              |              |              | cgcatcaagc | 2280 |
|      |            |              |              |              |              | tgccgctatg | 2340 |
| 150  | gggacctgg  | gagcctgcat   | ggcgcgggtg   | r cagcgggacc | : cggttctggg | tcaccctcag | 2400 |
|      |            |              |              |              |              | ttgtatggac | 2460 |
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|      |            |              |              |              |              | ccctggatgg | 2700 |
|      |            |              |              |              |              | catgttttgc | 2760 |
|      |            |              |              |              |              | gaagcttctg | 2820 |
|      |            |              |              |              |              | agagccgctg | 2880 |
|      |            |              |              |              |              | aaattccgaa | 2940 |
| 170  | ggaaaaattg | g tccatcttgt | : cgtcttcgga | ı aatgttatga | agcagggatg   | actctgggag | 3000 |

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176 aatgtcagcc catctttctg aatgtcctgg aagccattga gccaggtgta gtgtgtgctg
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178 gacacgacaa caaccagccc gactcctttg cagccttgct ctctagcctc aatgaactgg
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180 gagagagaca gcttgtacac gtggtcaagt gggccaaggc cttgcctggc ttccgcaact
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182 tacacgtgga cgaccagatg gctgtcattc agtactcctg gatggggctc atggtgtttg
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184 ccatgggctg gcgatccttc accaatgtca actccaggat gctctacttc gcccctgatc
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186 tggttttcaa tgagtaccgc atgcacaagt cccggatgta cagccagtgt gtccgaatga
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188 ggcacctctc tcaagagttt ggatggctcc aaatcacccc ccaggaattc ctgtgcatga
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190 aagcactgct actettcage attattccag tggatgggct gaaaaatcaa aaattetttg
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192 atgaacttcg aatgaactac atcaaggaac tcgatcgtat cattgcatgc aaaagaaaaa
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206 attetattig etgggetttt tittetett teteteettt ettittette tiedeteet
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210 tqaatqqtqt)tqtatqcctt taaatctqtq atgatcctca tatgqcccaq tqtcaagttq
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                                                                         4260
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239 tctcgattcg gcagcaaact tgggctgcag tgcatcggta tgcatgagaa aggcatcata
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241 tttaacaaca atccagaget etggaaaaca actegaceet tetttatgaa agetetgtea
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245 aggttggagg aggtgaccaa tgaatcgggc tatgtggacg tgttgaccct tctgcgtcgt
247 gtcatgctgg acacctctaa cacgctcttc ttgaggatcc ctttggacga aagtgctatc
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249 qtqqttaaaa tccaaqqtta ttttgatgca tggcaagctc tcctcatcaa accagacatc
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251 ttctttaaga tttcttggct atacaaaaag tatgagaagt ctgtcaagga tttgaaagat
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253 gccatagaag ttctgatagc agaaaaaaga cgcaggattt ccacagaaga gaaactggaa
255 gaatgtatgg actttgccac tgagttgatt ttagcagaga aacgtggtga cctgacaaga
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                                                                         1140
259 totttgttot toatgotatt totoattgoa aagoaccota atgttgaaga ggcaataata
261 aaggaaatcc agactgttat tggtgagaga gacataaaga ttgatgatat acaaaaatta
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263 aaagtgatgg aaaacttcat ttatgagagc atgcggtacc agcctgtcgt ggacttggtc
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| 267 | attatcctga  | atattggaag  | gatgcacaga | ctcgagtttt | tccccaaacc | caatgaattt | 1380 |
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| 271 | ccccgtggct  | gtgcaggaaa  | gtacatcgcc | atggtgatga | tgaaagccat | cctcgttaca | 1500 |
| 273 | cttctgagac  | gattccacgt  | gaagacattg | caaggacagt | gtgttgagag | catacagaag | 1560 |
| 275 | atacacgact  | tgtccttgca  | cccagatgag | actaaaaaca | tgctggaaat | gatctttacc | 1620 |
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|     |             |             | atggcatttt |            |            |            | 1800 |
| 283 | gctaggtgct  | attggtcatc  | tgctcctgtt | cacaccagag | aaccaggcta | caagagaaaa | 1860 |
| 285 | agcagaggcc  | aagagtttga  | gggagaaata | gtcggtgaag | aaaccgtatc | cataaagacc | 1920 |
|     |             |             | tgagaaggat |            |            |            | 1980 |
|     |             |             | cctcaaccca |            |            |            | 2040 |
| 291 | tcaagttgat  | tagaaagacc  | aggccaatgt | cagggtacct | ggggccaaac | ccacctgcta | 2100 |
|     |             |             | attttgtttt |            |            |            | 2160 |
|     |             |             | attcagcatt |            |            |            | 2220 |
|     |             |             | atctgtctgt |            |            |            | 2280 |
|     |             |             | tcagccactt |            |            |            | 2340 |
|     |             |             | atatataatc |            |            |            | 2400 |
|     |             |             | ggccctgtgt |            |            |            | 2460 |
|     |             |             | tccttttggc |            |            |            | 2520 |
| 307 | gtggctaacc  | aagagataac  | tgtaaatgtg | acattgattt | gctcttacta | cagcttcagt | 2580 |
|     |             |             | caacccaatg |            |            |            | 2640 |
|     |             |             | gacattttct |            |            |            | 2700 |
| 313 | gggcaacaga  | tcagtaaaga  | acgtggtcag | agtagaaccc | ctgaagtatt | ttttaatcct | 2760 |
| 315 | acctcaaaat  | ttaacagtta  | cctgagagat | ttaacattat | ctagttcatt | gaatcattgt | 2820 |
|     |             |             | cacaccttgg |            |            |            | 2880 |
|     |             |             | actttacttg |            |            |            | 2940 |
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| 334 | taaccgggag  | atagtgatga  | agtacatcca | ttataagctg | tcgcagaggg | gctacgagtg | 120  |
| 336 | ggatgcggga  | gatgtgggcg  | ccgcgccccc | gggggccgcc | cccgcgccgg | gcatcttctc | 180  |
| 338 | ctcgcagccc  | gggcacacgc  | cccatacagc | cgcatcccgg | gacccggtcg | ccaggacctc | 240  |
| 340 | gccgctgcag  | accccggctg  | ccccggcgc  | cgccgcgggg | cctgcgctca | gcccggtgcc | 300  |
| 342 | acctgtggtc  | cacctgaccc  | tccgccaggc | cggcgacgac | ttctcccgcc | gctaccgccg | 360  |
| 344 | cgacttcgcc  | gagatgtcca  | ggcagctgca | cctgacgccc | ttcaccgcgc | ggggacgctt | 420  |
| 346 | tgccacggtg  | gtggaggagc  | tcttcaggga | cggggtgaac | tgggggagga | ttgtggcctt | 480  |
| 348 | ctttgagttc  | ggtggggtca  | tgtgtgtgga | gagcgtcaac | cgggagatgt | cgcccctggt | 540  |
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| 352 | ggataacgga  | ggctgggatg  | cctttgtgga | actgtacggc | cccagcatgc | ggcctctgtt | 660  |
| 354 | tgatttctcc  | tggctgtctc  | tgaagactct | gctcagtttg | gccctggtgg | gagcttgcat | 720  |
| 356 | caccctgggt  | gcctatctgg  | gccacaagtg | aagtcaacat | gcctgcccca | aacaaatatg | 780  |
| 358 | caaaaggttc  | actaaagcag  | tagaaataat | atgcattgtc | agtgatgttc | catgaaacaa | 840  |
| 360 | agctgcaggc  | tgtttaagaa  | aaaataacac | acatataaac | atcacacaca | cagacagaca | 900  |
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| 362 | cacacacaca | caacaattaa | cagtetteag | gcaaaacgtc | gaatcagcta | tttactqcca | 960  |
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|     |            |            |            | cgaccactaa |            |            | 1080 |
|     |            |            |            | acatagattc |            |            | 1140 |
|     |            |            |            | aaaggacctg |            |            | 1200 |
|     |            |            |            | tcattcactt |            |            | 1260 |
|     |            |            |            | ggggggaagt |            |            | 1320 |
|     |            |            |            | tgcatacctg |            |            | 1380 |
|     |            |            |            | tttccacgcc |            |            | 1440 |
|     |            |            |            | taagctacca |            |            | 1500 |
|     |            |            |            | ttaagccctg |            |            | 1560 |
|     |            |            |            | ggctctgtct |            |            | 1620 |
|     |            |            |            | cttccgcatc |            |            | 1680 |
|     |            |            |            | taggagaccg |            |            | 1740 |
|     |            |            |            | tgagccgggg |            |            | 1800 |
|     |            |            |            | atgtctggaa |            |            | 1860 |
|     |            |            |            | ggctgggcct |            |            | 1920 |
|     |            |            |            | ccacgaccct |            |            | 1980 |
|     |            |            |            | tcctatcaga |            |            | 2040 |
|     |            |            |            | ttttggctgt |            |            | 2100 |
|     |            |            |            | caaggcttta |            |            | 2160 |
|     |            |            |            | gtcatggatt |            |            | 2220 |
|     |            |            |            | agtttggttt |            |            | 2280 |
|     |            |            |            | atctgtacat |            |            | 2340 |
|     |            |            |            | aaaagaagtg |            |            | 2400 |
|     |            |            |            | cagccttgaa |            |            | 2460 |
|     |            |            |            | gtattaactt |            |            | 2520 |
|     |            |            |            | tgctttaaaa |            |            | 2580 |
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|     | _          |            |            | cacccagage |            |            | 3060 |
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|     |            |            |            | tttaagcaaa |            |            | 3240 |
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|     |            |            |            | atataaagcc |            |            | 3420 |
|     | _          |            |            | atgtatatat | -          |            | 3480 |
| 448 | aattgctggc | tggctgcctt | ttgctgtggg | gttttgttac | ctggttttaa | taacagtaaa | 3540 |
| 450 | tgtgcccagc | ctcttggccc | cagaactgta | cagtattgtg | gctgcacttg | ctctaagagt | 3600 |
| 452 | agttgatgtt | gcattttcct | tattgttaaa | aacatgttag | aagcaatgaa | tgtatataaa | 3660 |
|     |            | -          | -          | ctttttttc  | -          |            | 3720 |
|     |            |            |            | gtattgaaga |            |            | 3780 |
| 458 | aactgctctt | tatgaatgaa | aaaacagtcc | tctgtatgta | ctcctcttta | cactggccag | 3840 |
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DATE: 09/20/2004

PATENT APPLICATION: US/10/826,585

TIME: 16:35:38

Input Set : D:\Sequence Stuff\IMMC 143 PCT.US.ST25.txt

Output Set: N:\CRF4\09202004\J826585.raw

## Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:16; N Pos. 9,1239

Seq#:51; N Pos. 2780,2791,3405,3470

VERIFICATION SUMMARY

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Input Set : D:\Sequence Stuff\IMMC 143 PCT.US.ST25.txt

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L:1495 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0

M:341 Repeated in SeqNo=16

L:5264 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:2760

M:341 Repeated in SeqNo=51